
A series of ten thin, vertical black lines of equal height and width, spaced evenly, located to the left of the word 'SOME'.

# **SOME FACTS**

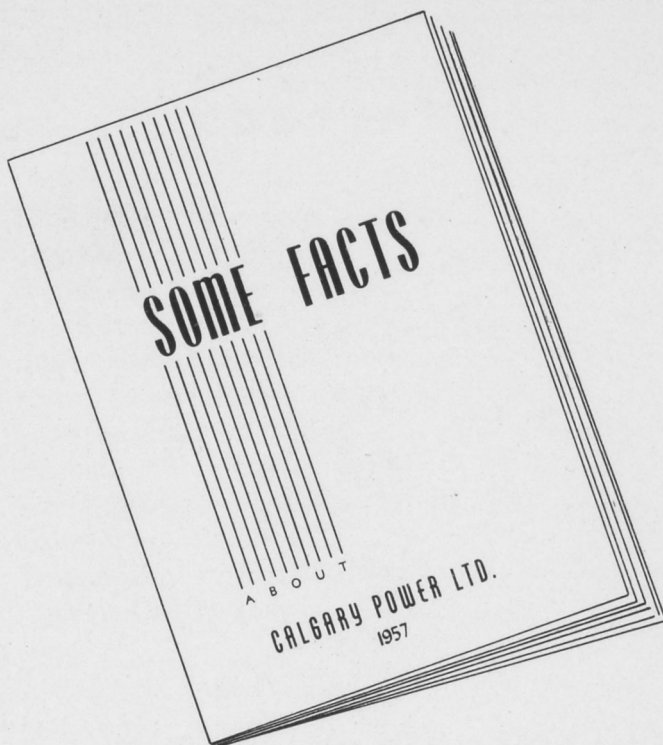
A series of ten thin, vertical black lines of equal height and width, spaced evenly, located to the left of the word 'ABOUT'.

A B O U T

**CALGARY POWER LTD.**

**1957**





PRESENTING  
INFORMATION AND STATISTICS  
ABOUT  
CALGARY POWER LTD.

COMPILED BY CALGARY POWER LTD., FEBRUARY, 1958



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## HIGHLIGHTS IN COMPANY'S GROWTH

- 1886 - Eau Claire Sawmill built a dam across the Bow River at Calgary.
- 1889 - Calgary Water Power Company Limited organized. Commenced serving part of Calgary (retail).
- 1893 - Dominion Government Water Power License #6 was issued from Ottawa permitting utilization of the 12 foot head at the Eau Claire Dam for power. This hydro power was used in conjunction with the steam plant.
- 1902 - N.W.T. Certificate of Incorporation #76 was issued from Regina incorporating the Calgary Water Power Company Limited.
- 1905 - The Dominion Government surveyed the Horseshoe-Kananaskis region.
- 1909 - Calgary Power Company Limited organized.
- 1910 - Calgary Power Company Limited purchased Calgary Power and Transmission Company.
- 1911 - Horseshoe Falls Plant completed. Capacity 20,000 h.p., head 72 feet. First transmission line to Calgary completed. Calgary Power Company Limited customers consisted of Calgary (wholesale) and Canada Cement Company.  
Dominion Water and Power Bureau began investigation of the Bow basin with emphasis on Spray as a potential power site.
- 1912 - First storage reservoir dam completed at Lake Minnewanka. Lake level raised 16 feet. Second transmission line to Calgary completed, and Cochrane served.
- 1914 - Kananaskis Falls Plant completed. Capacity 12,000 h.p., head 72 feet.
- 1924 - A 66 KV transmission line completed from Seebe to Calgary.
- 1926 - Transmission system extended south of Calgary to High River and Blackie.
- 1927 - Transmission system extended further south serving several towns, and an interchange contract entered into with the City of Lethbridge.



- 1928 - Transmission system extended north of Calgary to Olds and intervening towns supplied. The system was also extended east to Rockyford and Bassano with some intervening towns supplied. Victoria Park Steam Plant leased from City of Calgary, and an agreement entered into to supply all City of Calgary power needs. Company purchased entire capital stock of Calgary Water Power Company Limited.
- 1929 - Ghost River Plant completed. Capacity 37,450 h.p., head 110 feet.  
Interchange contract entered into with City of Edmonton.
- 1930 - 132 KV transmission line completed to Edmonton from Ghost. Commenced partial supply of bulk power to Red Deer.
- 1933 - Dam at Upper Kananaskis Lake built to raise lake level by 20 feet.
- 1936 - 138 KV steel tower line completed from Ghost to Calgary.
- 1938 - Calgary Water Power Company sold its distribution system to the City of Calgary.
- 1941 - Calgary Power Company Limited purchased original Cascade Power Plant from Dominion Government.  
Earthfill dam completed at Lake Minnewanka raising reservoir level by an additional 65 feet.  
Completion of Ghost Diversion turned water through Devil's Gap into Lake Minnewanka.  
66 KV transmission line from Seebe to Calgary constructed in 1924 rebuilt for 132 KV operation.
- 1942 - Cascade Plant completed. Capacity 23,000 h.p., head 345 feet.  
Addition built to Upper Kananaskis reservoir dam, raising storage level by 50 feet.
- 1944 - First experimental rural electrification area served near Olds.
- 1947 - Calgary Power Company Limited reorganized under the name Calgary Power Ltd.  
Barrier Plant completed. Capacity 16,000 h.p., head 155 feet.

- 1948 - Farm Electric Services Ltd. organized as a subsidiary company, replacing the former Rural Department.
  
- 1949 - Interconnection of Calgary Power Ltd. and Canadian Utilities Limited at Rockyford-Drumheller.
  
- 1951 - Kananaskis Plant Extension completed. 12,000 h.p. added, bringing total capacity to 24,000 h.p.  
         Spray Plant completed. Capacity 62,000 h.p., head 900 feet.  
         Three Sisters Plant completed. Capacity 3,600 h.p., head 65 feet.  
         Rundle Plant completed. Capacity 23,000 h.p., head 320 feet.  
         Second 138 KV transmission line completed from Ghost to Edmonton.  
         Power Purchase Agreement entered into with the City of Medicine Hat for 25,000 KW from a 30,000 KW Steam Plant Extension.
  
- 1953 - 138 KV transmission line built from Medicine Hat to Calgary. Medicine Hat 30,000 KW Steam Plant Extension completed and commenced feeding into the Calgary Power System.
  
- 1954 - Ghost Plant Extension completed. 30,000 h.p. added, bringing total capacity to 67,450 h.p.  
         Bears paw Plant completed. Capacity 22,000 h.p., head 50 feet.
  
- 1955 - Pocatererra Plant completed. Capacity 18,500 h.p., head 207 feet.  
         Interlakes Plant completed. Capacity 6,900 h.p., head 127 feet.
  
- 1956 - Wabamun Steam Plant completed. Capacity 88,000 h.p.  
         230 KV transmission lines operating initially at 138 KV were built from Wabamun to Edmonton and from Ghost to Calgary.  
         Calgary Power Ltd. purchased all outstanding shares of Alberta Southern Coal Company Limited, which gives the Company control of coal reserves exceeding 50 million tons adjacent to the Wabamun Plant.
  
- 1957 - Cascade Plant Extension completed. 23,000 h.p. added, bringing total capacity to 46,000 h.p.



## COMPANY OFFICIALS

G. A. GAHERTY - President  
G. H. THOMPSON - Vice-President  
A. W. HOWARD - General Manager  
W. A. SHARMAN - Secretary-Treasurer  
D. A. HANSEN - General Sales Manager  
H. B. LeBOURVEAU - Transmission and Distribution  
H. RANDLE - Equipment and Waterworks  
F. T. GALE - Rural Electrification  
T. D. STANLEY - Production  
J. McMILLAN - Purchasing  
W. E. ROSS - Public Relations  
D. C. McINTOSH - Personnel

## EMPLOYEES, 1957

### CALGARY POWER LTD.

Male .....	531
Female .....	89
Total .....	<hr/> 620

### FARM ELECTRIC SERVICES LTD.

Male .....	151
Female .....	20
Total .....	<hr/> 171

TOTAL C.P. LTD. and F.E.S.L. ....	<hr/> 791
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See Chart 2, page 14 for number of employees since 1940.

## CUSTOMERS

	1953	1957
TOWNS RETAIL .....	44,899	58,905
Domestic .....	32,821	43,575
Commercial .....	9,033	11,481
Power .....	3,045	3,849
TOWNS WHOLESALE .....	5	5
RURALS .....	15,199	26,556
Calgary Power Ltd. ....	2,531	2,619
R.E.A.'s .....	12,668	23,937
INDUSTRIAL .....	2,290	4,577
TOTAL SERVED DIRECTLY .....	62,393	90,043
SERVED BY WHOLESALE CONTRACTS ..	54,626	72,781
SERVED BY C.P. LTD. ....	117,019	162,824
TOTAL IN ALBERTA .....	221,000	292,010

See Chart 3, page 15 for growth of C.P. Ltd. customers since 1931.

## MAJOR INDUSTRIAL CUSTOMERS

CONSOLIDATED MINING & SMELTING - fertilizer plant  
 CANADA CEMENT - cement plant  
 PREMIER STEEL - arc furnace and rolling mill  
 SHERRITT GORDON MINES - nickel refinery  
 IMPERIAL OIL - oil refinery and gas processing  
 INLAND CEMENT - cement plant  
 CANADIAN INDUSTRIES LTD. - explosives and polythene  
 PEMBINA PIPE LINE - crude oil pumping  
 TRANS MOUNTAIN OIL PIPE LINE - crude oil pumping  
 ALBERTA PHOENIX - pipe and tube mill  
 BRITISH AMERICAN OIL - oil refinery; gas processing  
 BUILDING PRODUCTS - roofing materials  
 McCOLL FRONTENAC - oil refinery  
 SHELL OIL OF CANADA - gas processing  
 IMPERIAL PIPE LINE - crude oil pumping  
 WESTERN PLYWOOD - plywood plant  
 PEACE RIVER GLASS - glass fibre plant

## FARMS CONNECTED

	1953	1957
PROVINCE .....	24,181	41,130
CALGARY POWER LTD.* .....	18,131	29,306
*Connected directly by C.P. Ltd. ....	3,690	4,000
*Connected through R.E.A.'s .....	14,441	25,306

See Chart 4, page 16 for farms connected by Calgary Power since 1945.

## LOAD IN KILOWATT HOURS

	1953 MILLIONS	1957 MILLIONS
TOTAL PROVINCE .....	1,340	2,243
CALGARY POWER LTD. ....	882	1,447
% C.P. LTD. OF TOTAL PROVINCE ....	66	65
% INCREASE C.P. LTD. LOAD 1953-57		64
% INCREASE LOAD CANADA 1953-57		29

See Charts 5 and 6, pages 17 and 18 for C.P. Ltd. load since 1931.

## DISTRIBUTION OF ENERGY SALES

	1953		1957	
	MILLIONS OF KWH	%	MILLIONS OF KWH	%
TOWN RETAIL .....	102	13	179	14
WHOLESALE .....	280	36	466	35
INDUSTRIAL .....	362	46	583	44
RURAL .....	42	5	94	7
TOTAL .....	786	100	1,322	100

See Chart 7, page 19 for distribution of energy sales since 1931.

## AVERAGE DOMESTIC CONSUMPTION

CALGARY POWER LTD. ....	2,119 KWH Per Customer (1957)
CANADA .....	3,740 KWH Per Customer (1956)
U.S.A. ....	3,174 KWH Per Customer (1957)

See Chart 8, page 20 for consumption per domestic customer since 1931.

## GENERATING FACILITIES, 1957

	NAMEPLATE RATING HP	CAPABILITY KW
<b>PLANT CAPACITY</b>		
HYDRO .....	309,450	240,000
THERMAL .....	88,000	72,000
	<hr/>	<hr/>
TOTAL .....	397,450	312,000
<b>POWER PURCHASED</b>		
CITY OF MEDICINE HAT .....		25,000
		<hr/>
<b>TOTAL GENERATING CAPABILITY</b>		337,000

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### INSTALLED PLANTS

#### HYDRO

Horseshoe .....	20,000	14,000
Kananaskis .....	24,000	19,000
Ghost .....	67,450	51,000
Barrier .....	16,000	13,000
Cascade .....	46,000	36,000
Three Sisters .....	3,600	3,000
Spray .....	62,000	50,000
Rundle .....	23,000	17,000
Bearspaw .....	22,000	17,000
Interlakes .....	6,900	5,000
Pocaterra .....	18,500	15,000
	<hr/>	<hr/>
Total .....	309,450	240,000

#### THERMAL

Wabamun .....	88,000	72,000
	<hr/>	<hr/>

TOTAL PLANT CAPACITY .....	397,450	312,000
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### PLANTS UNDER CONSTRUCTION

HYDRO .....	102,000	80,000
THERMAL .....	88,000	72,000
	<hr/>	<hr/>
TOTAL UNDER CONSTRUCTION	190,000	152,000

## **TRANSMISSION & DISTRIBUTION LINES, 1957**

### **MAIN TRANSMISSION**

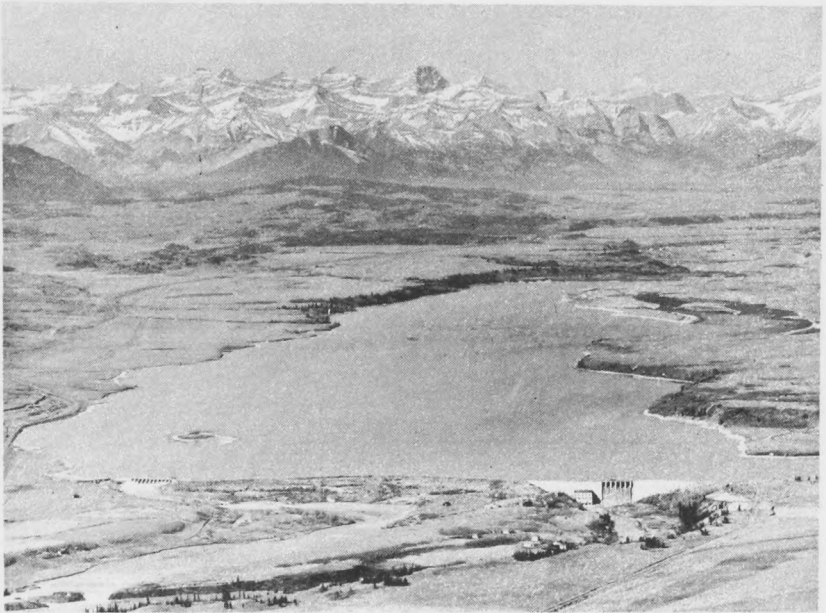
13.8 KV and over ----- 4,469 miles

### **DISTRIBUTION**

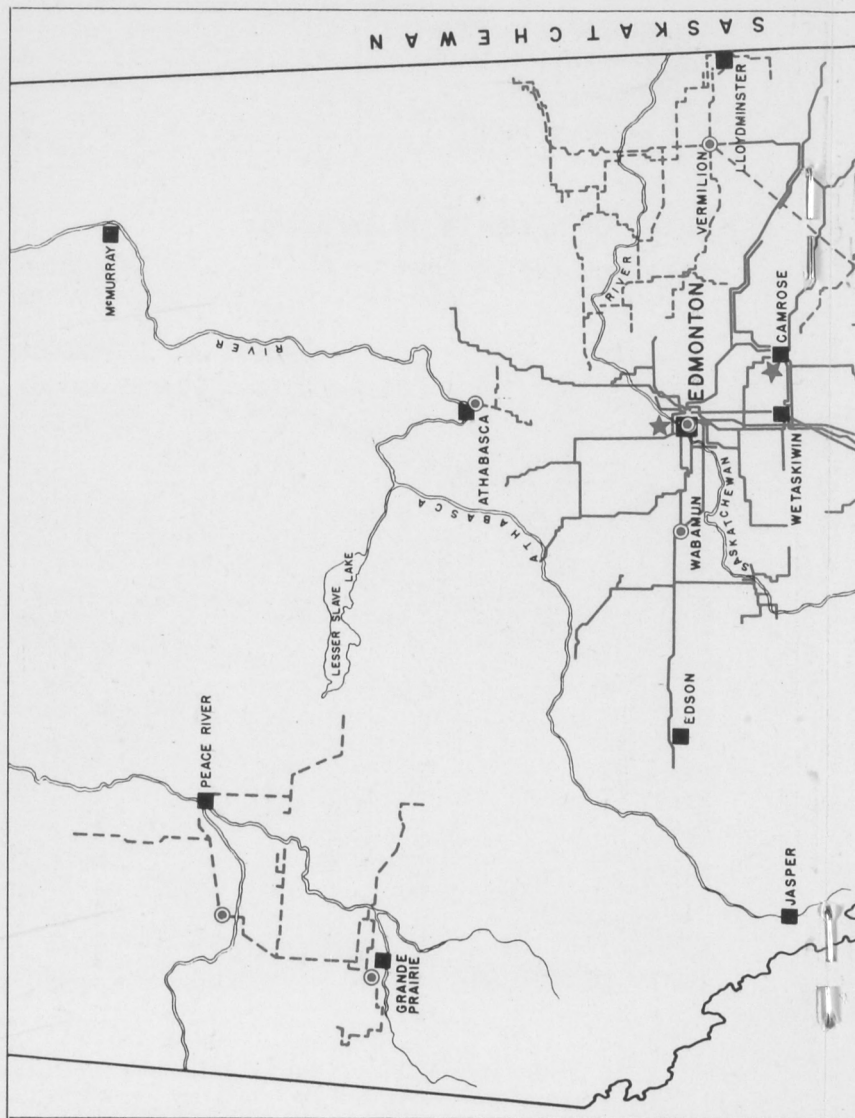
Excluding Rurals ----- 2,719 miles

## **COST OF UTILITY PLANT, 1957**

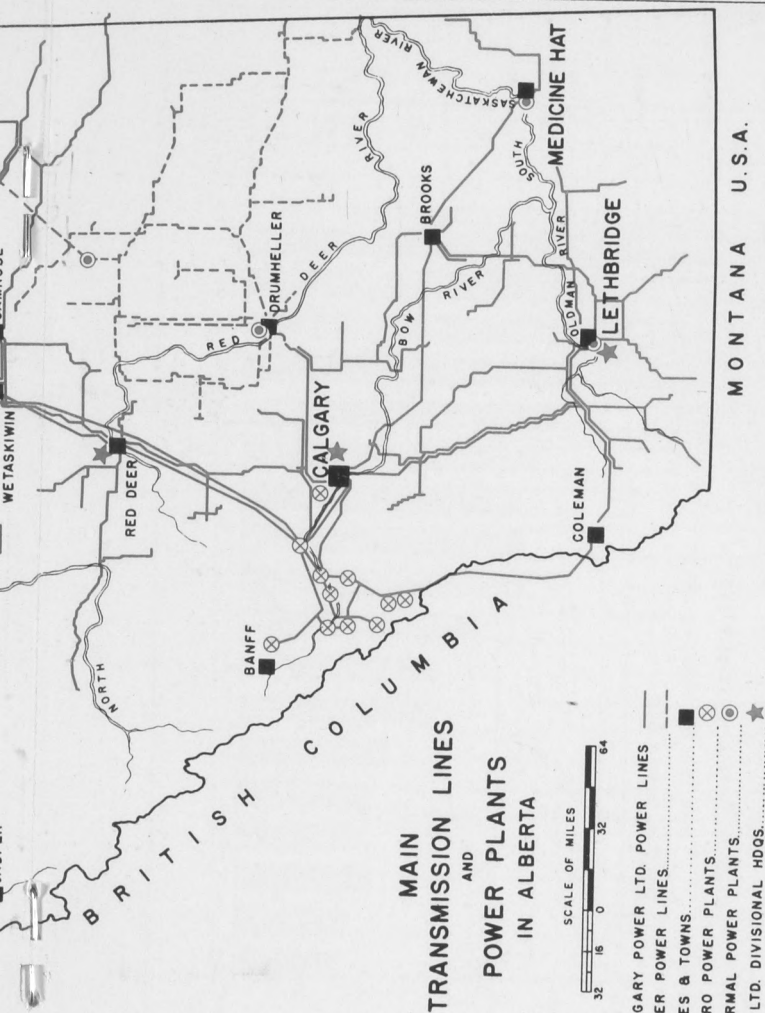
112.7 MILLION DOLLARS



Ghost Hydro-electric Plant. Rocky Mountains in background are source of Bow River and its tributaries, on which Company operates eleven plants.







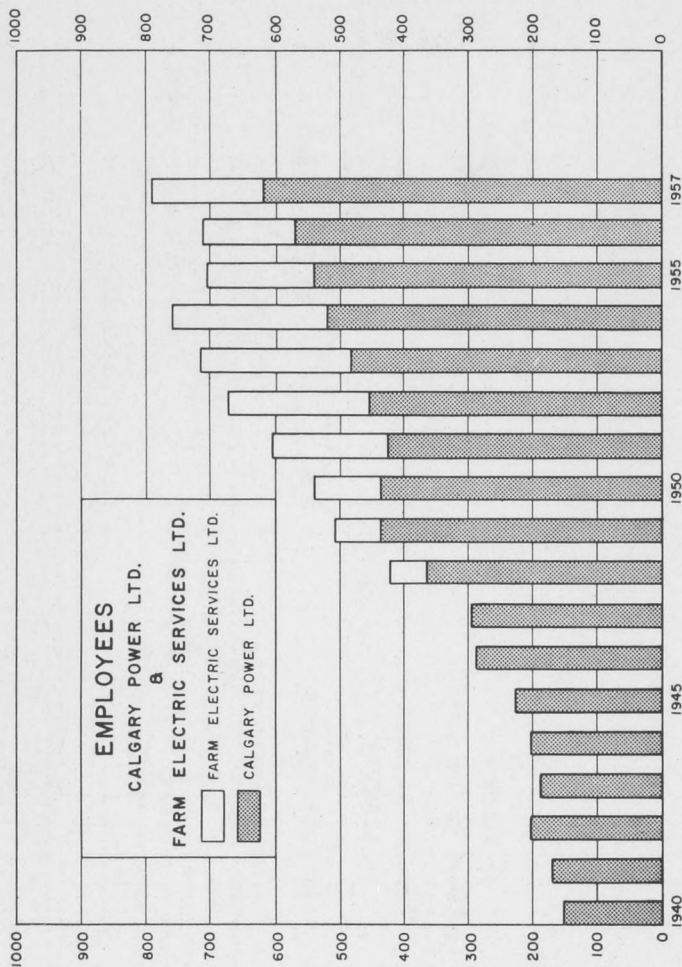
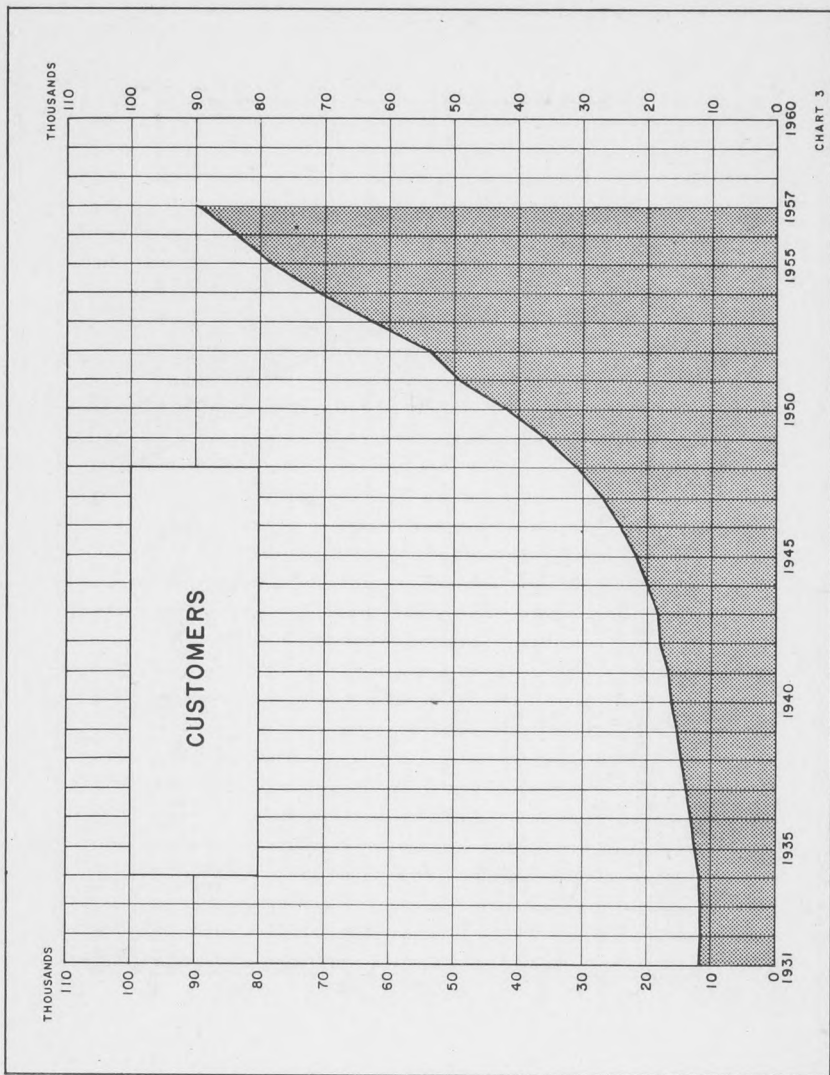
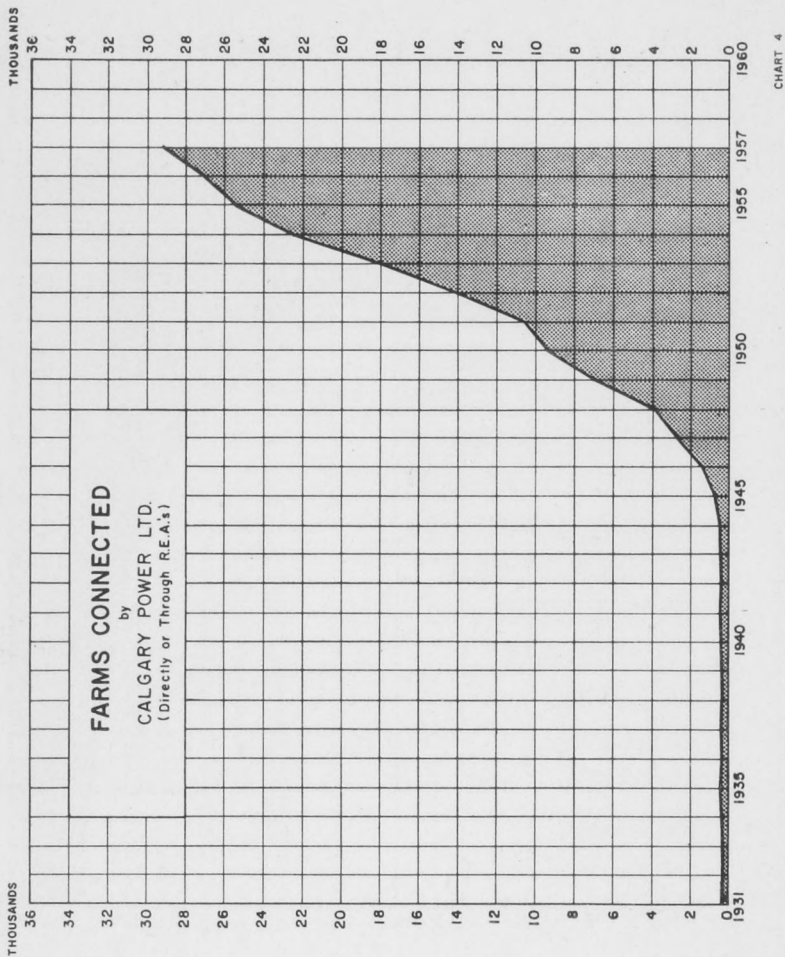


CHART 2





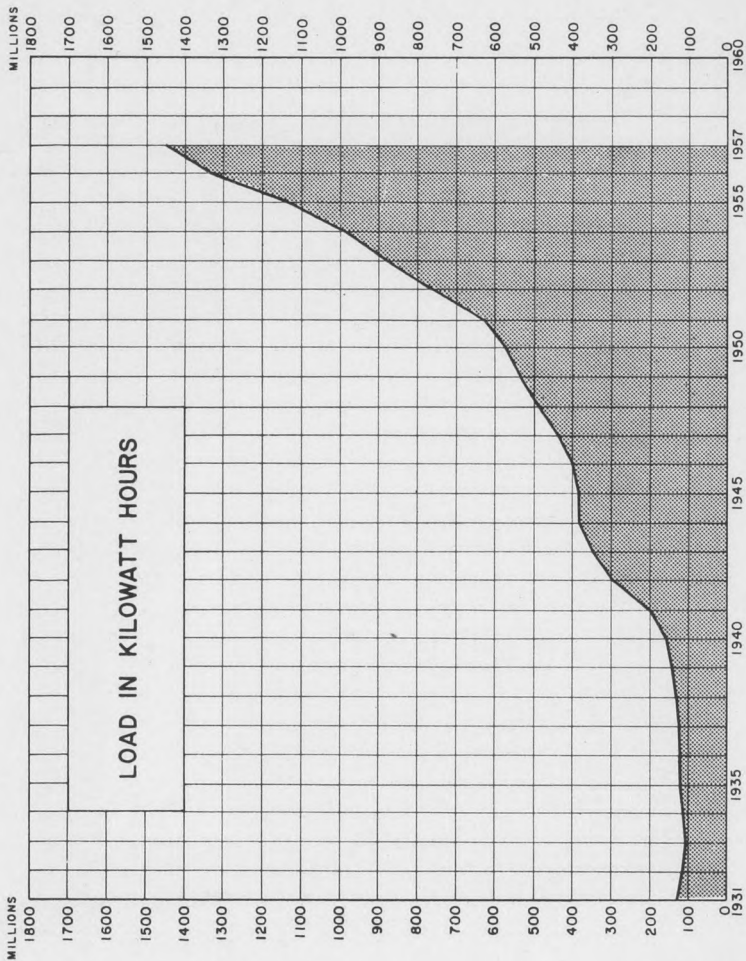
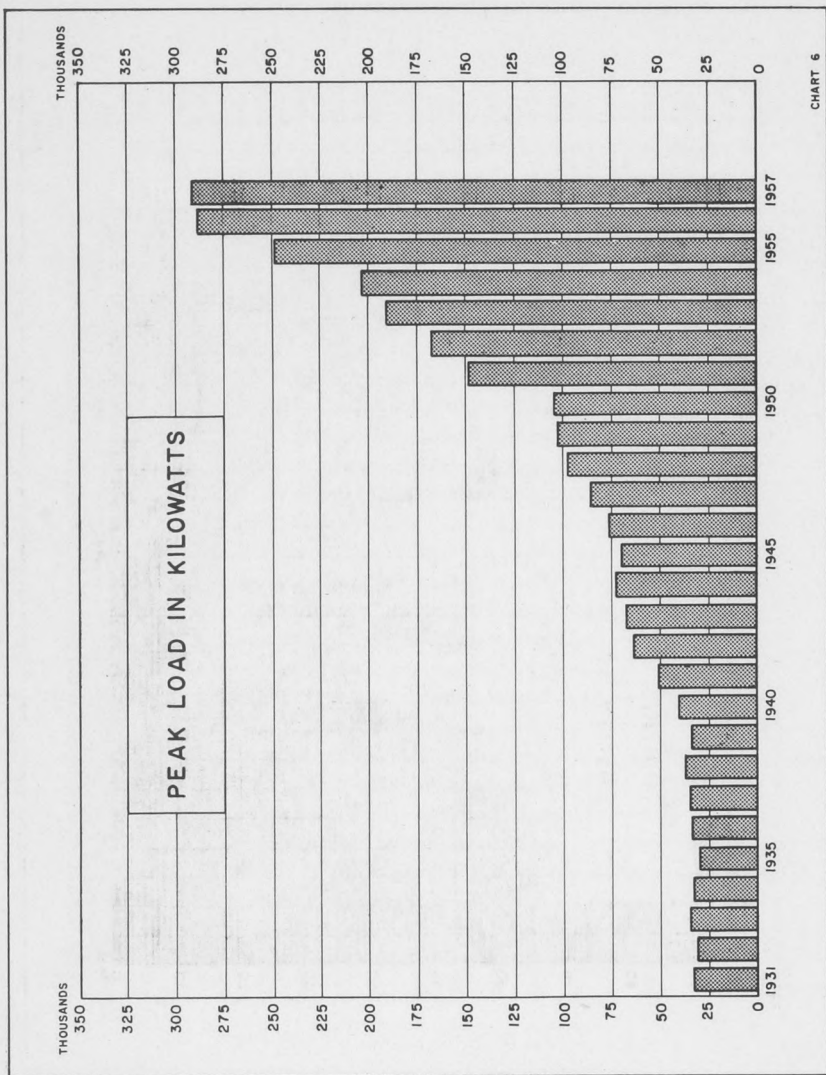


CHART 5





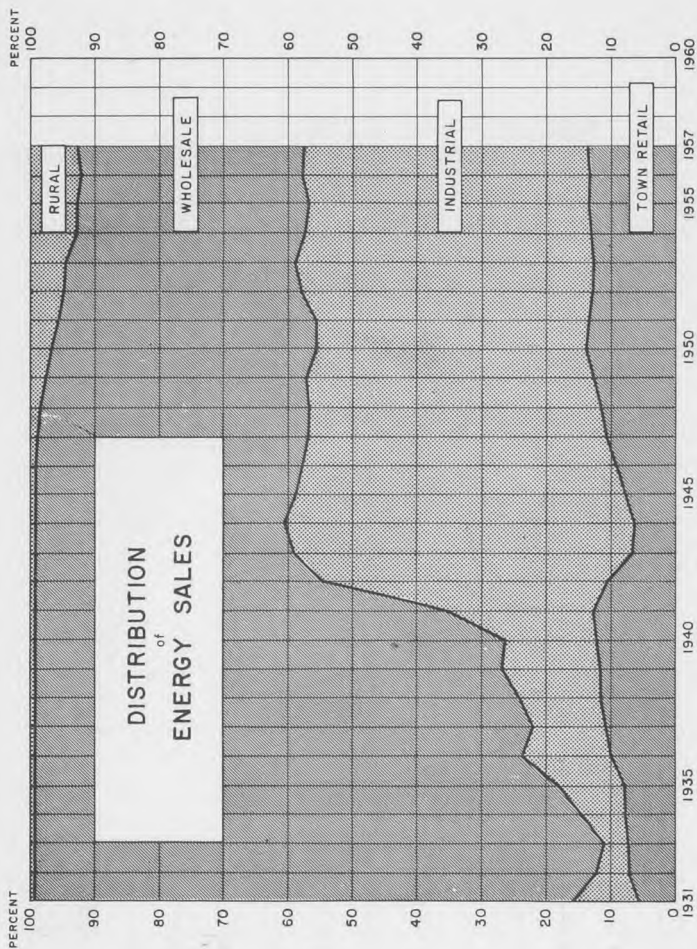
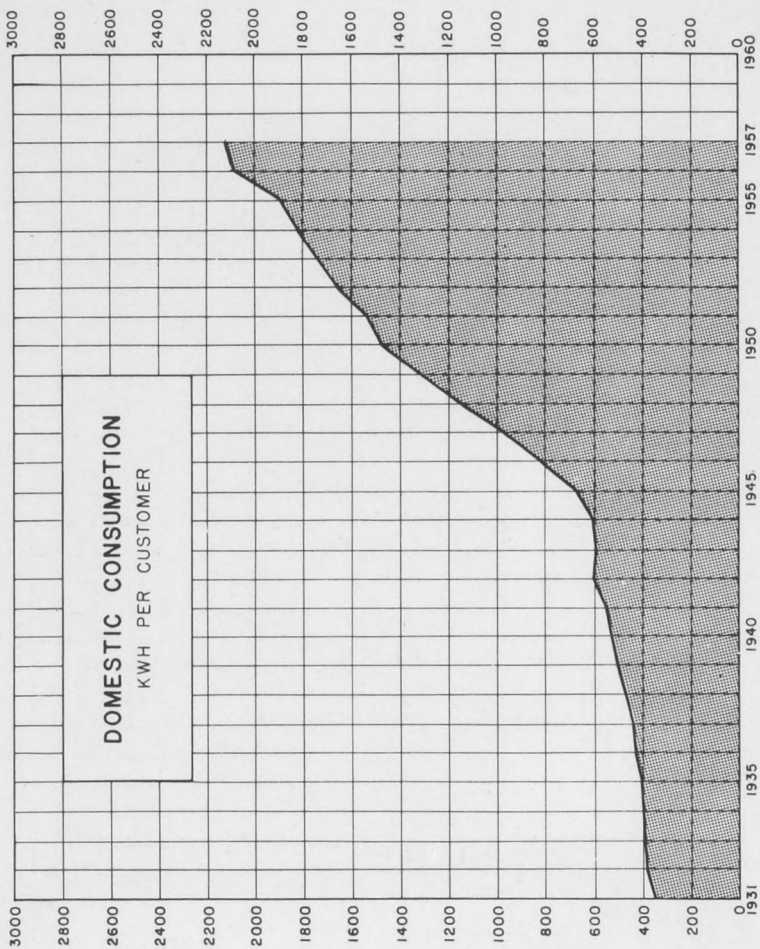


CHART 7

CHART 8



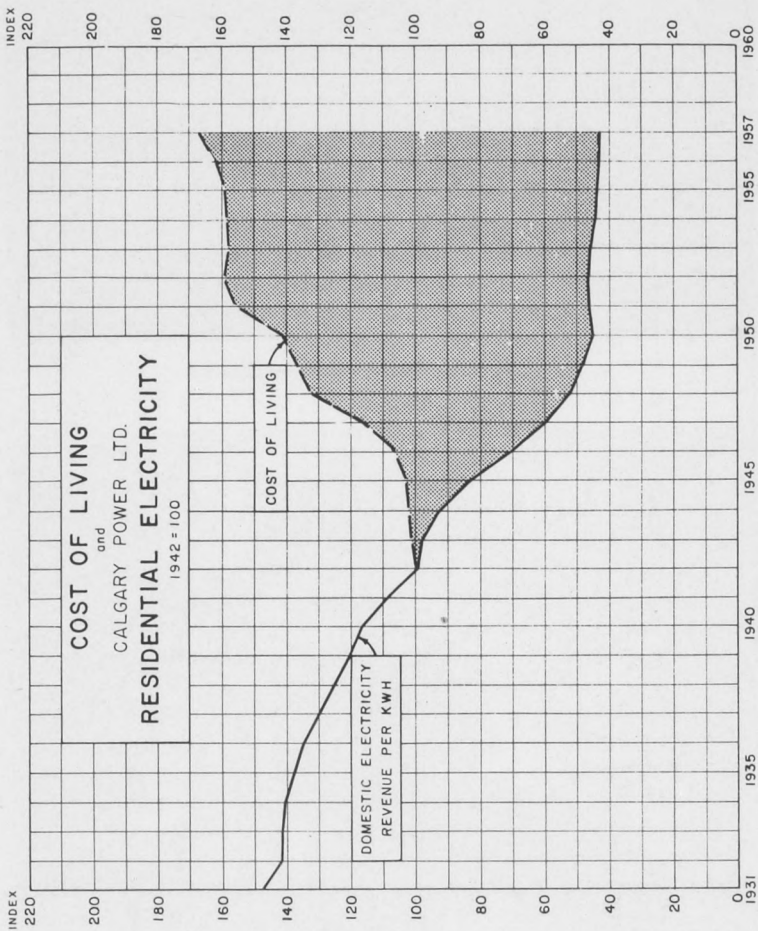
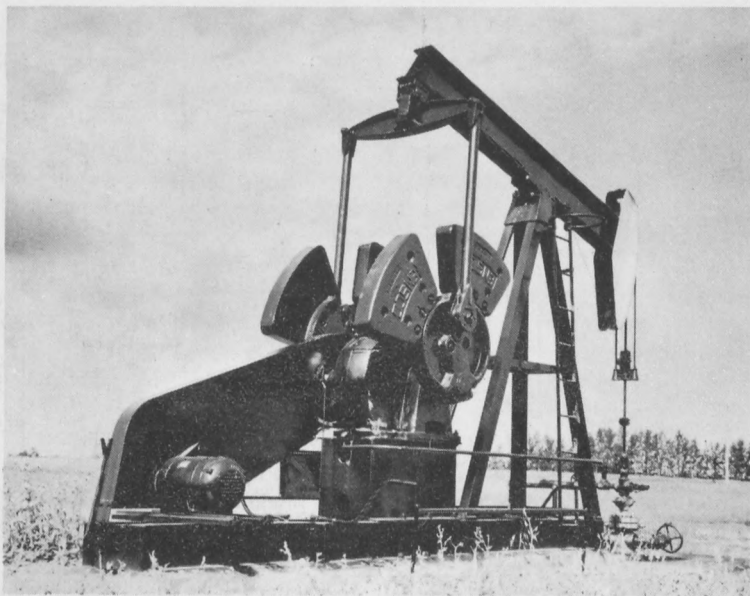


CHART 9

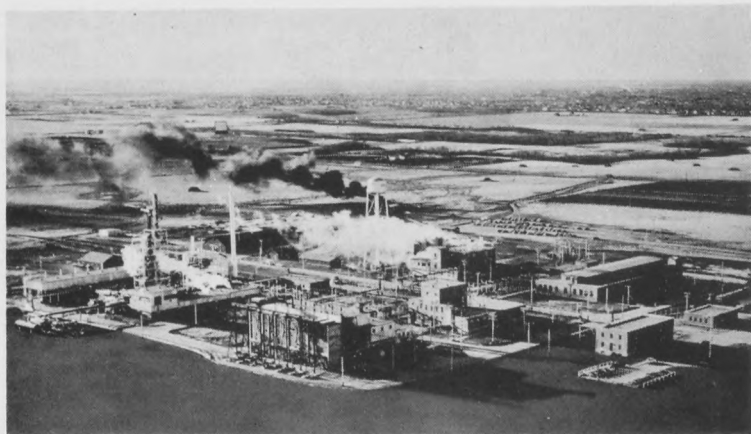
## OUR CUSTOMERS INCLUDE:



71 % of Alberta's Electrified Farms



3,900 Oil Well Pumps



Petrochemical Plant Near Edmonton



The Rapidly Expanding City of Calgary









**CALGARY POWER LTD.**

HELPING TO BUILD A BETTER ALBERTA